

GINSBURG, A.S., dotsent, kandidat tekhnicheskikh nauk.

Theoretical principles of bread baking. Trudy MTIPP 2:357-382
'52. (Baking) (MLRA 9:2)

Doctor of Technical Sciences, Soviet Union Academy of Sciences
(Chief of the Bread Baking Industry), Biological Science.

The booklet presents the theoretical bases of the baking process, and the basis for the baking schedule. The booklet includes a classification, a general survey, and description of the design of oven units of the bread baking industry, including scientific-technical literature for the basic types of ovens, the method of analytical and graphical computation of the oven schedule, the time expenditure, and verification of the oven unit.

The booklet is intended for scientific personnel, and scientific personnel of the bread baking industry.

SC: Scientific (Scientific), 4. 137, 1952, 1952, (1-1952)

GINKBURG, A.S.; KHMEL'NITSKAYA, A.M., redaktor; GOTLIB, E.M., tekhnicheskii
redaktor

[Drying apparatus for the bread baking industry] Sushil'nye usta-
novki khlebopekarnoi promyshlennosti. Moskva, Pishchepromisdat,
1954. 195 p. (MLRA 7:10)

(Drying apparatus)

(Bakers and bakeries--Equipment and supplies)

Ginsburg, H. S.

Review of thermogravimetric methods in the study of heating
processes. H. S. Ginsburg, A. B. Ginsburg, V.
Kopchik, and E. M. Moroz. *Thermogravimetry*.
Int. J. Thermogravimetry, 1974, No. 3, 15-6; *Ref. J. Chem. Eng. Data*, 1974, No. 19, 1002. An endothermal effect was ob-
served in the degradation of starch. Heating curves for
starch and starch gels for baking are given. M. Hoesch

MD

③

LYKOV, A.V.; AUERMAN, L.Ya.; GINZBURG, A.S.

Investigating the heat and mass exchange in capillary-porous
bodies with methods based on the theory of similitude as applied
to the processes of drying and baking. Trudy MTIPP 4:5-18 '56.
(MLRA 9:10)

(Heat--Transmission) (Baking)

AUERMAN, L.Ya.; OSTROVSKIY, Ya.G.; ~~GINZBURG, A.S.~~; ZHURAVLEV, N.N.;
PALUNINA, Z.P.; MINAYENKOVA, V.S.; KOZHEVNIKOVA, Ya.P.;
SUVOROVA, M.A.

Use of electric contact heating for preparing scalded wheat
flour mash and for investigating the saccharification of mash.
Trudy MTIPP 4:62-70 '96. (MLRA 9:10)

(Dough) (Starch) (Amylases)

AUERMAN, L.Ya.; OSTROVSKIY, Ya.G.; GINZBURG, A.S.; ZHURAVLEV, N.N.;
KHICHUASHVILI, A.Z.; KVEINY, F.M.

Zwieback from rye bread baked by electric contact heating.

Trudy MTIPP 4:82-85 '56.

(MLRA 9:10)

(Bread)

6702 APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R000515120013-3
CIA-RDP86-00513R000515120013-3"

SHUMAYEV, Fedor Grigor'yevich; MAKLYUKOV, Il'ya Ivanovich; MIKHELEV, A.A.,
dotsent, retsenzent; NOVITSKIY, B.F., dotsent, retsenzent;
GINZBURG, A.S., professor, spetsredaktor; KHMELE'NITSKAYA, A.Z.,
redaktor; KISINA, Ye.I., tekhnicheskii redaktor

[Industrial ovens for baking bread and confectionery] Promyshlennyye
pechi khlebopekarnogo i konditerskogo proizvodstva. Moskva,
Pishchepromizdat, 1957. 353 p. (MIRA 10:11)
(Ovens)

GINZBURG, Abram Solomonovich; KRASNOPEVTSEV, N.I., retsenzent.; KHMEL'NITSKAYA,
A.Z., red.; DOBUZHINSKAYA, L.V., tekhn. red.

[Modern types of bakery ovens] Sovremennye konstruktsii khlebo-
pekarnykh pechei. Moskva, Pishchepromizdat, 1958. 154 p.
(MIRA 11:11)

(Ovens)

GIRZHOY, Arkadiy Petrovich, kand. tekhn. nauk.; SAMOCHETOV, Viktor Fedorovich, inzh;
GINZBURG, A.S., prof., doktor tekhn. nauk, red.; KEYZER, V.A., red.;
GOLUBOVKA, L.A., tekhn. red.

[Grain drying and grain dryers] Zernosushenie i zernosushilki.
3. perer. i dop. izi. Moskva, Izd-vo tekhn. i ekon. kit-ry po
voprosam kukul'no-krupianoi, kombikormovoi promyshl. i elevatorno-
skladsogo khoz., 1958. 322 p. (MIRA 11:12)
(Grain--Drying)

REPENKO, A.T., red.; GUREVICH, M.S., red.; GINZBURG, A.S., red.;
YERMOLAYEV, V.V., red.; ZHUK, A.A., red.; USPENSKIY, V.V.,
red.; MASLOV, N.A., red.izd-va; TEMKINA, Ye.L., tekhn.red.;
KORNEYEVA, V.I., tekhn.red.

[Section on the economics of the construction industry]
Sektoria ekonomiki stroitel'stva. Moskva, Gosstroizdat,
1958. 369 p. (MIRA 12:6)

1. Vsesoyuznoye soveshchaniye po stroitel'stvu, 3rd, Moscow,
1958.

(Construction industry--Costs)

LEVIN, David Markovich; GINZBURG, A.S., prof., doktor tekhn.nauk, spetsred.;
KEMEL'NITSKAYA, A.M., red.; DOBUZHINSKAYA, L.V., tekhn.red.

[Thermodynamic theory and design of drying apparatus] Termo-
dinamicheskaya teoriya i raschet sushil'nykh ustanovok. Moskva,
Pishchepromizdat, 1958. 166 p. (MIRA 12:2)
(Thermodynamics) (Drying apparatus)

GINZBURG, Abram Solomonovich; LYKOV, A.V., akademik, retsenzent;
KHMELE'NITSKAYA, A.Z., red.; MURASHOVA, O.I., red.; SOKOLOVA,
I.A., tekhn.red.

[Drying of food products] Sushka pishchevykh produktov.
Moskva, Pishchepromizdat, 1960. 683 p.

(MIRA 14:4)

1. AN BSSR (for Lykov).
(Food--Drying)

GINZBURG, A.S.

"Processes and apparatus of food industries" by V.N.Stabnikova,
V.D.Popova, F.A.Red'ko. Reviewed by A.S.Ginzburg. Sakh.prom. 34
no.10:74-77 O '60. (MIRA 13:10)

(Food industry--Equipment and supplies)
(Stabnikova, V.N.) (Popova, V.D.) (Red'ko, F.A.)

ROSLYAKOVA, O.I.; GINZBURG, A.S.; AUERMAN, L.Ya.

Infrared radiation as a method for the intensification of the
baking process. Trudy MTIPP 16:30-42 '60. (MIRA 16:6)
(Baking)

(Infrared rays--Industrial applications)

GINZBURG, A.S.; BAB'YEV, N.N.; MIKHAYLOVSKAYA, Ye.I.

Experimental study of the contact drying process of some
materials of the canning industry in a single-roller vacuum
dryer. Trudy MTIPP 16:57-66 '60. (MIRA 16:6)

(Food, Concentrated)
(Drying apparatus)

ROSLYAKOVA, O.I.; GLINZBURG, A.S.; A. I. K. L. Ya.

Investigating the broad taking of mass in the electric field
of high frequency currents combined with the application of
infrared rays. Trudy NTIPP 1974, 100, 160. (MIRA 1975)

(Broad) (Electric waves)

(Infrared rays—Industrial applications)

Report presented at the Conference on Heat and Transfer,
Moscow, USSR, 5-10 June 61.

BM-2832
35

270. V. I. Borovoy, I. K. Tuma, Pattern of Boiling at High Dynamic Pressures.
271. A. J. Kuo, The Heat Transfer Coefficient for Flow in a Pipe.
272. B. L. Brilovoy, L. I. Shchegolev, Experimental Investigation of Heat and Mass Transfer from a Heated Air Flow over the Surface of a Plate.
273. A. M. Deryagin, On Some Results of the Investigation of Heat Transfer by Forced Convection in Turbulent Flow.
274. A. I. Gushakov, O. I. Rostovtsov, Heat Transfer at the Process of Convective Boiling by Heated Fluid.
275. V. A. Buzin, Regime of the Heat Transfer Coefficient on a Plate in Turbulent Flow in the Absence of the Effect of Surface Radiation.
276. V. I. Bobrov, S. P. Kuznetsov, V. I. Shchegolev, Investigation of Heat Transfer by Forced Convection from Heated Surfaces of Flat and Curved Surfaces.
277. E. M. Pechenkin, Some Principal Problems of Critical Methods of Heat Transfer Surface Investigation.
278. P. I. Zhuravskiy, Investigation of the Thermodynamic Stability Properties of Heat Transfer Coefficients.
279. B. L. Brilovoy, Correlation of the Dependence of Coefficients of Boiling.
280. V. K. Shchegolev, Investigation of Heat Transfer through the Wall of a Longitudinal Pipe at Forced Convection.
281. A. V. Kuznetsov, Investigation of Convective Heat Transfer in a Channel with a Wire Mesh.
282. G. I. Shchegolev, Some Problems of Heat and Mass Transfer Studies in the Natural Convection of Gases and Liquids.
283. I. I. Kuznetsov, Investigation of Heat Transfer between Gas and Solid Surfaces by Means of a Specialized Heat Transfer Coefficient.
284. M. V. Pukhov, S. G. Deryagin, The Process of Turbulent and Diffusive Heat Transfer in a Channel with a Wire Mesh.
285. I. I. Kuznetsov, M. I. Shchegolev, Heat Flow at High Pressures.
286. I. I. Kuznetsov, Investigation of the Dependence of the Heat Transfer Coefficient on the Nature of a Surface.
287. A. S. Gushakov, Investigation of the Dependence of the Heat Transfer Coefficient on the Nature of a Surface.

GINZBURG, A.S.; REZCHIKOV, V.A.

Basic aerodynamic and structural characteristics of a pseudo-
liquefied layer of grain. Inzh.-fiz.zhur. no.5:55-60 My '62.
(MIRA 15:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zerna i
produktov yego pererabotki, Moskva.
(Fluidization)

GINZBURG, A.S.; REZCHIKOV, V.A.

Method for calculating the duration of grain drying in a pseudo-fluidized bed. Inzh.-fiz.sbur. 5 no.8:40-47 Ag '62.
(MIRA 15:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zerna i produktov yego pererabotki, Moskva.
(Grain—Drying) (Fluidization)

GINZBURG, A.S.; DUBROVSKIY, V.P.

Determination of the moisture diffusion coefficient for grainy materials. Inzh.-fiz.zhur. 6 no.10:27-32 0 '63. (MIRA 16:11)

1. Tekhnologicheskiiy institut pishchevoy promyshlennosti, Moskva.

LEBEDEV, Panteleymon Dmitriyevich; MIKHAYLOV, N.M., prof., retsenzent;
~~GINZBURG, A.S.~~, prof., retsenzent; LIKOV, M.V., dots.,
nauchnyy red.; LEONCHIK, B.I., dots., nachnyy red.; LARIONOV,
G.Ye., tekhn. red.

[Calculation and design of drying systems] Raschet i proektiro-
vanie sushil'nykh ustanovok. Moskva, Gosenergoizdat, 1963. 319 p.
(MIRA 16:3)

(Power engineering) (Drying)

GINZBURG, A.S.; PODOL'SKIY, M.V.

Investigating heat and mass transfer in the process of sublimation
drying of liquid materials. Inzh.-fiz. zhur. 7 no.5:28-33 My '64.
(MIRA 17:6)

1. Tekhnologicheskiy institut pishchevoy promyslennosti, Moskva.

UKOLOV, Vladimir Stepanovich; GINZBURG, A.S., doktor tekhn. nauk,
prof., retsenzent; KAZAKOVA, Ye.D., red.

[Corn drying] Sushka kukuruzy. Moskva, Kolos, 1964. 303 p.
(MIRA 18:9)





Investigating officer, please inform the subject of the following information. Inform the subject of the following information. (K. 18.7)

1. The following information is being provided to you for your information.

ACC NR: AM6026324 (A) Monograph

UR/

Ginzburg, Abram Solomonovich

Infrared technology in the food industry (Infrakrasnaya tekhnika v pishchevoy promyshlennosti). Moscow, Izd-vo "Pishchevoy promyshlennost'", 1965. 407 p. illus., biblio., tables. 3300 copies printed.

TOPIC TAGS: ~~biological science~~, food technology, ^{IR}~~infrared~~ radiation, *food preservation*

PURPOSE AND COVERAGE: Elements of the theory and technology of infrared heating are set forth. The fundamentals of the theory of heating during infrared drying are discussed. Special emphasis is placed on radiative (optical) characteristics of exposed materials. A considerable part of the book is devoted to the technology of infrared heating and its application to food processing. Data for this text were obtained from the Soviet and foreign scientific literature and from research done by various institutes as well as investigations conducted by the author and his students. The book is intended for engineers and scientists specializing in research and application of infrared radiation. The book may also prove beneficial to students in technical schools interested in the food processing industry.

Card 1/2

UDC: 664.66.085.1

ACC NR: AM6025324

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- Ch. 1. Theoretical principles of infrared heating and drying -- 11
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SUB CODE: 06, 20/ SUBM DATE: 18Dec65/ ORIG REF: 148/ OTH REF: 046/

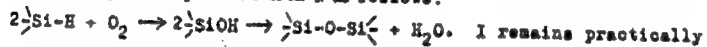
S/191/62/000/005/006/012
B110/B101

AUTHORS: • Kleynovskaya, M. A., Sobolevskiy, M. V., Mikhayev, Ye. P.,
Mul'nova, G. N., Ginzburg, A. S.

TITLE: Purification of industrial methyl-phenyl dichloro silane
obtained by the method of catalytic dehydrocondensation

PERIODICAL: Plasticheskiye massy, no. 5, 1962, 19-22

TEXT: The composition of industrial methyl-phenyl dichloro silane (I) and its purification from impurities was studied. These are: 0.5-2% dimethyl phenyl chlorosilane (boiling point 195°C), 1-3% phenyl trichlorosilane (boiling point 201.5°C) and 1-3% compounds with hydrogen-silicon bond (methyl phenyl chlorosilane, phenyl dichlorosilane, phenyl chlorosilane etc.). Purification combines separation methods with rectification processes. When treating industrial I with dry air at 150°C, the impurities are oxidized at the SiH bond to high-boiling siloxanes, which can easily be separated from I as follows:



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Purification of industrial ...

unchanged. At 150°C, air was ducted through at a rate of 250-280 liter/hr and a ratio of 4 liter air per g I. In order to separate phenyl trichlorosilane from I, partial esterification with isobutyl alcohol (6-8% of the weight of the fraction) was carried through at 40-60°C with subsequent heating to 120-150°C. Dimethyl phenyl chlorosilane was separated from I in a packed column with 25 theoretical plates. The fraction with dimethyl phenyl chlorosilane, ~26-35% of the total charge, may be used for the production of organosilicon varnishes, in the same way as I. I is then distilled off at a reflux ratio of 15-20. The residue of 3-6%, containing polysiloxanes may also be used for organosilicon varnishes. Purified I had the following characteristics:

$n_D^{20} = 1.5182-1.5186$; $d_4^{20} = 1.1762-1.1782$; Cl content = 37.00-37.39%;
Si content = 14.58-14.82%, $MR_D = 49.23-49.28$. There are 3 tables.

Card 2/2

GINZBURG, A.S.

First International Congress on Chemical Engineering (CHISA)
held at Brno. Inzh.-fiz.zhur. 6 no.2:133-138 F '63.
(MIRA 16:1)

(Chemical engineering—Congresses)

APPROVED FOR RELEASE:
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20

2-4

Data on determination of ear in *Triton cristatus*. A. S. CHITTENDEN (Compt. rend. Acad. Sci. U.R.S.S., 1939, 22, 370-373).—Ectoderm from the ear region of an embryo of *T. cristatus*, at the stage of an early or middle neurula, transplanted to the eye region of an older embryo of the same species, forms only undifferentiated epithelial vesicles. The same material forms a lens if put in contact with the optic cup. At the later stages of late neurula and of closure of the neural folds, the same ectodermal tissue is sp. and, when transplanted to the eye region, forms vesicles with characteristic ear structure, e.g., endolymphatic duct.

W. F. F.

ASAC-66 METALLURGICAL LITERATURE CLASSIFICATION

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Synonucleic acid of the protozoic cell. (G. I. Minkin and A. B. Ginzburg. *Compt. rend. acad. sci. U.R.S.S.* 42, 241-51 (1944).) Two components are responsible for the basophilic nature of the plasma of *Paramecium*, one not in hot liq. water, the other is made sol. by ribonuclease. The latter component is either identical with or closely related to synonucleic acid. The distribution and apt. of synonucleic acid varies in individual *Paramecium*. The nucleoli of the *Paramecium macronucleus* consist of synonucleic acid or at least, they contain a considerable amt. of it, whereas the micronucleus contains no synonucleic acid. The ribonuclease employed was obtained from fresh beef pancreas; the expts. were made on dry masses of *Paramecium* fixed with 90% alc. Staining was performed with methyl green pyronine. At At Bath

11-I

ADN 514 METALLURGICAL LITERATURE CLASSIFICATION

PROCESSING AND PHOTOGRAPHY

Ca
Hydrophilic nature of protoplasm in protozoa as connected
with the occurrence in the cell of nucleic acid. G. I.
Harkin and A. S. Chisburg. *Comp. rend. Acad. Sci.*
U.S.S.R. 43, 122-3 (1948). The amphiphilic nature of the
protoplasm of the *Paramecium*, *Ulpina* *runctum*, *Amoeba*
of the *linnaea* type, *Trypanosoma lewisi*, *Chlamydomonas*
moorei and *Phaeodanum* *rossi* is based largely on the pres-
ence of varying concentrations of cytoplasmic nucleic acid.
Also in *Doklady Akad. Nauk. S.S.S.R.* 43, 126-9 (1948).
Maurice M. Roth

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A.S.T.M. METALLURGICAL LITERATURE CLASSIFICATION

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GINZBURG, A.

A-4

Transplantation and removal of organ rudiments in embryos of *Artemia salina*. A. Ginzburg and T. Dettler (Compt. rend. Acad. Sci. U.S.S.R., 1964, 20: 500-512). The following experiments were carried out on the early embryos of this primitive fish: (1) removal and grafting of the dorsal lip of the blastopore; (2) removal of the presumptive eye; (3) removal of hind brain region. The results indicate that the causal mechanisms operative in the holoblastic type of this species are largely the same as those demonstrated in other vertebrates.

J. D. B.

ADD. S.A. METEOROLOGICAL LITERATURE CLASSIFICATION

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196000	24	1	2	3	4	5	6	7	8	9	10
196000	24	1	2	3	4	5	6	7	8	9	10

GINZBURG, A.

22609. GINZBURG, A. Iz opyta kliniki erevanskogo zocvetinstituta. (lecheniye nezarnznykh bolezney). Veterinariya, 1949, No. 7, S. 28-29.

SO: LETOIS' No. 20, 1949

DETLAF, T.A.; GINZBURG, A.S.

Analysis of sources of extrusion of eggs of the stellated sturgeon during
the incubation period. Trudy Inst.morf.shiv. no.5:184-201 '51.

(MLRA 6:9)

(Sturgeons)

GTRSP/L Vol. 5-No. 1 Jan. 1952

Detlaf, T. A. and Ginzburg, A. S. (A. N. Severtzov Institute of Animal Morphology, U. S. S. R. Academy of Sciences). Source of non-fertilizability of sturgeon eggs upon spawning in a river estuary. 1965. 8

...ology

Akademiya Nauk, S.S.S.R., Doklady Vol. 78, No. 5, 1151

728.7

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Zarodyshevoye razvitiye osetrovykh ryb (sevryugi, osetra, i belugi) v svyazi s voprosami ikh razvedeniya (Embryological development of sturgeons in connection with the problems of their breeding, by) T. A. Detlaf i A. S. Ginzburg. Moskva, Akademkniga, 1954.

215 p. illus., diagra., tables.

"Literatura": p. 196 - (204)

At head of title: Akademiya Nauk SSSR. Institut Morfologii Zhivotnykh.

GINZBURG, A.S.

Variability in the location of fissural sulci in the eggs of sturgeons.
Dokl. AN SSSR 95 no.5:1117-1120 Ap '54. (MLRA 7:4)

1. Institut morfologii zhivotnykh im. A.N. Severtsova Akademii nauk SSSR.
Predstavleno akademikom K.I. Skryabinym.
(Embryology--Fishes) (Sturgeons)

USSR/General Biology. Individual Development. Sex. : Cells. B-4

Abs Jour : Ref Zhur-Biol., No 16, 1956, 71573

Author : Ginzburg, A. S.

Inst : AS USSR.

Title : Fatty Metabolism in the Ovocytes and Eggs of
the Starred Sturgeon.

Orig Pub : Dokl. AN SSSR, 1956, 111, No 1, 236-239

Abstract : Even before the accumulation of the yolk
during the process of dyeing with sudan
III and black sudan V, fatty impurities (FI)
develop in the young ovocytes (O) from the
ovaries of sturgeons in the II and IV stages
of maturity. In the smallest O, with a dia-
meter of 70-80 μ , there are some fatty drop-
lets located near the nucleus on one side.

Card : 1/3

USSR/General Biology. Individual Development. Sex : Colls. B 4

Abs Jour : Ref Zhur-Biol., No 16, 1956, 71573

of all the tract of their development into a period of slight growth (general for oogenesis and spermatogenesis) and a period of great growth, inherent only in oogenesis, in the course of which C accumulates nutrients of various kinds. -- G. M. Ignat'yeva

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GINZBURG, A. S.

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CIA-RDP86-00513R000515120013-3
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10-2-69/66

AUTHOR: Ginzburg, A. S.

TITLE: **Monospermy in Sturgeons During Normal Fertilization and the Consequences of Penetration Into the Egg of Supernumerary Spermatozoa (Monospermiya u osetrovykh ryb pri normal'nom oplodotvorenii i posledatviya pronikn veniya v yajco sverkhchislennykh spermiyev)**

PERIODICAL: Doklady Akademii Nauk SSSR, 1957, Vol. 114, No. 3, pp. 445-447 (USSR)

ABSTRACT: If the eggs of sturgeons are impregnated with strongly diluted sperm, then the development of the eggs, under favorable conditions, as a rule takes a normal course. They divide into 2, 4, 8 etc. blastomeres. On the other hand, if a weakly diluted sperm is used, there frequently occur disturbances in the process of egg division, supernumerous blastomeres are formed, and later many eggs perish. The author of the present paper assumes that in sturgeons, as well as in anurans, supernumerous blastomeres are caused by penetration of supernumerous sperms. However, in the sterlet observations were

Card 1/2

20.2-60/60

Monospermy in Sturgeons During Normal Fertilization and the Consequences of Penetration Into the Egg of Supernumerary Spermatozoa

made which point exactly in the opposite direction. In order to find an answer to this question, experiments on impregnation were conducted under different conditions were investigated from a cytological point of view. The results obtained lead the author of the paper under review to the conclusion that normal impregnation in sturgeons is monospermous. Penetration of sperms in greater number, as in impregnation with weakly diluted sperm and at "dry" impregnation, represents a pathological polyspermy as it is accompanied by disturbances in the egg division and in the entire subsequent development. There are 1 figure (10 microreproductions), 1 table and 8 references, 7 of which are Soviet.

ASSOCIATION: Institute of Animal Morphology imeni A. N. Severtsov, AS USSR
(Institut morfologii zhivotnykh im A. N. Severtsova Akademii nauk SSSR)
PRESENTED: February 21, 1957, by I. I. Shmal'gauzen, Member of the Academy
SUBMITTED: February 12, 1957
AVAILABLE: Library of Congress
Card 2/2

AUTHOR
TITLE

Ginzburg, A.S.
The Time of Contact Establishment Between
Spermatozoon in Sturgeons.
(Vremya ustanovleniya kontakta spermii i yaiatsov pri
oplodotvoranii u osetrovykh ryb.)
Doklady Akademii Nauk SSSR, 1957, Vol. 115, Nr 4;
pp. 845-848 (USSR)

PERIODICAL
ABSTRACT

At it was shown earlier the fertilization of sturgeons is normally monopormic. In the case of spawn fertilization, with slightly diluted sperm fertilization by several spermatozoa was frequently observed. In order to understand the way of precaution against the penetration of excess sperms into the ovum under normal circumstances the initial stage of the process of fertilization must be studied precisely. This work aims at the investigation of the period from the time of the adding of sperm to the spawn to the contact between the sperms and the ova. For this purpose the author has investigated the sperms and observed the fertilized eggs. He has first the passage for the cytological examination and observed the passage of the sperms through the little micropylar channels at different times after the fertilization. Sperms of the "star sturgeon" (*Acipenser stellatus* Pall.) and of the

The Times of Contact Establishment Between the Egg and the Sperm in Sturgeons.

Black Sea sturgeon (*A. gaidenstedti* Gaidenstedt V. Marti) which were obtained by means of hypophyseal injections served for the experiments. Experiments for the inactivation of sperms. 7 different surface active preparations were tested. The washing powder "Novest" - Detergent was the most useful. It contains sulphateethers of the cetyl- and stearyl alcohol. This detergent reactivated sperms within less than 0,5 seconds without damaging the eggs. Thus, no fertilization took place in 2454 eggs investigated. An important part of the eggs were fertilized already during the first seconds after the adding of the sperm no matter whether the sperms were highly diluted or highly concentrated. The frequency of the cases of polyspermic fertilization increased rapidly in the first seconds after the fertilization. After the climax of the percentage of the fertilization the polyspermic fertilization ceased to increase. Results of the cytological investigation: The structure of the egg of the sturgeons and the fertilization process is described. The comparison of the knowledge of the structure and of the fertilization with the results of the above experiments led to the conjecture that the contact between the sperm and the cytoplasm of

CARD 2/4

described. ... of sturgeons ... animals. The sperm ... or fibres with ...

The Time of Contact Establishment Between the Egg and the Spermatozoon
in Sturgeons. 20-4-60/60

There are 2 figures and 3 Slavic references.

ASSOCIATION:

Institute for Animal Morphology imeni A.N. Severtsov
AN USSR
(Institut morfologii zhivotnykh imeni A.N. Severtsova
Akademii nauk SSSR)

PRESENTED:

By I.I. Shmal'gauzen, Academician, April 23, 1957

SUBMITTED:

April 19, 1957

AVAILABLE:

Library of Congress.

GINZBURG, A.S.

Fertilization in acipenserid fishes. Report No.1: Fusion of gametes.
TSitologiya 1 no.5:510-526 8-0 '59. (MIRA 13:2)

1.Laboratoriya eksperimental'noy embriologii Instituta morfologii
zhivotnykh AN SSSR, Moskva.

(FERTILIZATION (BIOLOGY)) (STURGEONS)

GINZBURG, A.S.

Blocking of polyspermy in the fertilization of sturgeon and salmon
eggs and the role of cortical granules (alveoles) in this process.
Zhur. ob. biol. 21 no.6:419-423 N-D '60. (MIRA 14:1)

1. Institut morfologii zhivotnykh im. A.N.Severtsova AN SSSR,
Moskva.
(FERTILIZATION (BIOLOGY)) (FISHES--PHYSIOLOGY)

GINZBURG, A.S.

Blocking mechanism of polyspermy in echinoderms. Dokl. AN SSSR
152 no.2:501-504 S '63. (MIRA 16:11)

1. Institut morfologii zhivotnykh im. A.N. Severtsova AN SSSR.
Predstavleno akademikom Yu.A.Orlovym.

*

DETLAF, T.A.; GINZBURG, A.S.

Acrosomal reaction in sturgeons and the role of calcium
ions in the coupling of gametes. Dokl. AN SSSR 153 no.6:
1461-1464 D '63. (MIRA 17:1)

1. Institut morfologii zhivotnykh im. A.N. Severtsova
AN SSSR. Predstavleno akademikom I.I. Shmal'gauzenom.

BORSUK, R.A., red. (Moskva); BOCHAROV, Yu.S., red. (Moskva);
GINZBURG, A.S., red.; YEMEL'YANOV, S.V., red.; LANGE,
A.B., red.; LARINOV, V.F., red.; MANUILOVA, N.A., red.;
MATVEYEV, B.S., red.; PODDUBNAYA-ARNOL'DI, V.A., red.;
POTEMKINA, D.A., red.; TRANKOVSKIY, D.A., red.; USTINOVA,
Yo.I., red.; SHMIDT, G.A., red.; SHREDE., V.E., red.;
NECHAYEVA, Ye.G., red.

[Problems in modern embryology] Problemy sovremennoi embri-
ologii. Moskva, Izd-vo Mosk. univ., 1964. 565 p.

(KIRA 17:5)

L 38722-88

ACC NR: AP6014152

(A)

SOURCE CODE: UR/0114/65/000/012/0006/0009

AUTHOR: Ginzburg, A. Z. (Engineer)

ORG: None

TITLE: Use of Weibull distribution for calculating the reliability of diesel components

SOURCE: Energomashinostroyeniye, no. 12, 1965, 6-9

component life expectancy, mechanical failure,

TOPIC TAGS: statistic distribution, engine piston, engine cylinder, engine reliability, reliability engineering, marine engine, diesel engine/ 5D50 diesel engine

ABSTRACT: Calculations based on Weibull distribution are proposed for determining the rate of failure of various diesel components since this distribution law takes account of the three cases encountered in operational practice: 1. A reduction in rate of failure with time (for parts which fail during the break-in period), 2. An increase in rate of failure (for the majority of components) and 3. A relatively uniform distribution of rate of failure throughout the entire service life of the engine. Statistical tests on components of various marine diesel engines show entirely satisfactory agreement between the empirical and theoretical distribution for the service life of the components. Curves are given showing the reliability characteristics for some of these components. Data on the 5D50 diesel engine used in whale-

Card 1/2

UDC: 621.436:621.3.019.32.001.24

L 38722-66

ACC NR: AP6014152

boats show an average piston lifetime of 12800 hours while the average lifetime of cylinder sleeves in this engine is 8870 hours. The rate of failure for pistons shows a continuous increase with time of service due to thermal stresses caused by irregular operating conditions during whaling runs and impairment of piston rings. The proposed reliability calculations may be used to set up preventative maintenance schedules on the basis of predicted component failure. Orig art. has: 2 figures, 5 tables, 9 formulas.

SUB CODE: 14, 21/ SUBM DATE: none/ ORIG REF: 004/ OTH REF: 001

Card 2/2

ZVEGINTSEVA, G.B.; GINKZBURG, B.G.; KORCHILOVA, Ye.Ye.; DAVILVA, Z.I.;
DAVANKOV, A.B.; ZUBAKOVA, L.B.

Recovery of phenol from sulfate liquor wastes of a phenol
sulfonation plant by means of pyridine-containing anion
exchangers. Zhur. prikl. khim. 38 no.5:1102-1105 My '65.
(Mir 18:11)

L 24720-66 EWT(m)/EWP(j) IJP(8) RM

ACC NR. AP6009511

SOURCE CODE: UR/0413/66/000/005/0020/0021

AUTHOR: Ivanova, V. A.; Genkin, N. D.; Vorob'yev, V. D. Ginzburg, B. G.;
Zharavin, K. N.; Korchilava, Ye. Ya.; Savost'yanova, N. G.

ORG: none

TITLE: Preparation of Captax-2-mercaptobenzothiazole. Class 12,
No. 179306. announced by the Scientific Research Institute of Organic
Semifinished Products and Dyes and the Berezniki Plant of Aniline
Dyes (Nauchno-Issledovatel'skiy institut organicheskikh poluproduktov
i krasiteley i Bereznikovskiy anilinokrasochnyy zavod)

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki,
no. 5, 1966, 20-21

TOPIC TAGS: captax, mercaptobenzothiazole, aniline, aniline dye

ABSTRACT: An Author Certificate has been issued describing a method
for preparing Captax-2-mercaptobenzothiazole by melting aniline,
sulfur, nitrobenzene, carbon bisulfide at elevated temperatures and
pressure, followed by dissolving the melt in a water solution of
alkali hydroxide or milk of lime, purifying the solution obtained
and separating the product. To improve the quality of Captax, de-
contaminate the waste water and make it possible to use the solution

Card 1/2

UDC: 547.789.6'2.07

ACC NR: AP6009511

of the alkali Captax melt for the production of sulfuramides, the purification is conducted by extraction with benzene polychlorides, chlorobenzene, benzene, or their water emulsions, followed by removal of the residue of the solvent by conventional methods. [LD]

SUB CODE: 11/ SUBM DATE: 08Aug64/

Card 2/2 f/

Ginzburg, B.I. 17-7-6/22
AUTHORS: Ginzburg, B. I., Vulykh, A.M., Lisovskiy, I.I.
Elizavko, D. G.

TITLE: Mechanical Gland sealing of 100-110 mm diameter pumps.
(Yekhnicheskoye zaptivkoye ustroystvo dlya
verdushchnykh prevstatel'nykh).

PERIODICAL: Tekhnicheskaya, 1958, No. 3, pp. 7-10 (USSR).

ABSTRACT: The authors describe how at the Leningrad Petrovskiy
(Izrael Petrovskiy) works, where lack of proper equipment
the use of standard isolating devices for the Cooper
pumps, a mechanically clamped seal with interference
connecting pipe and lid was developed and improved.
The main element is moved with a lever at the joint
is liberally greased. At the end of the "on" stroke
the connecting pipe is moved and the lid
is tilted on.
There are 3 figures.

ASSOCIATION: Petrovskiy Works. (Zavod Im. Petrovskiy).

AVAILABLE: Library of Congress.

Card 1/1

ALEKSANDROV, V.Ye.; ARTSIMOVICH, G.V., kand.tekhn.nauk; GINZBURG, B.I.,
gornyy inzhener

Complete use of mining bore bits. Ugol' Ukr. 7 no.10:27-28
0 '63. (MIRA 17:4)

1. Nachal'nik upravleniya byuro vzaimnykh raschetov Donetskogo
soveta narodnogo khozyaystva (for Aleksandrov). 2. Institut
sverkhtverdykh materialov Gosplana UkrSSR (for Artsimovich,
Ginzburg).

MR. J., V.N., kand. tekhn. nauk; GINZBURG, B.I., inzh.

Prices for diamond powders and synthetic diamond tools. Mashino-
stroenie no.3:96-97 My-Je '64.

(MIRA 17:1.)

BOGOMAZ, D.L.; GINZBURG, R.I.

Economic efficiency of the use of synthetic diamonds in grinding
and lapping hard-alloy cutting tools. Mashinostroitel' no.10:
24-25 0 '64. (MIRA 17:11)

BAKUL', V.N., kand.tekhn.nauk; ZAKHARENKO, I.P., kand.tekhn.nauk; GINZBURG, B.I.,
inzh.

Introducing synthetic diamonds in the industry of the Ukrainian
S.S.R. Mashinostroenie no.4:38-41 JI-Ag '65.

(MIRA 18:8)

GIRLENG, R.I.; LINDEN, R.I.; LINDEN, R.I.

Performance of the ...
10 no. 100-1 ...

GINZBURG, B.L.

12-71 | 3:46 PM 12/12/2018

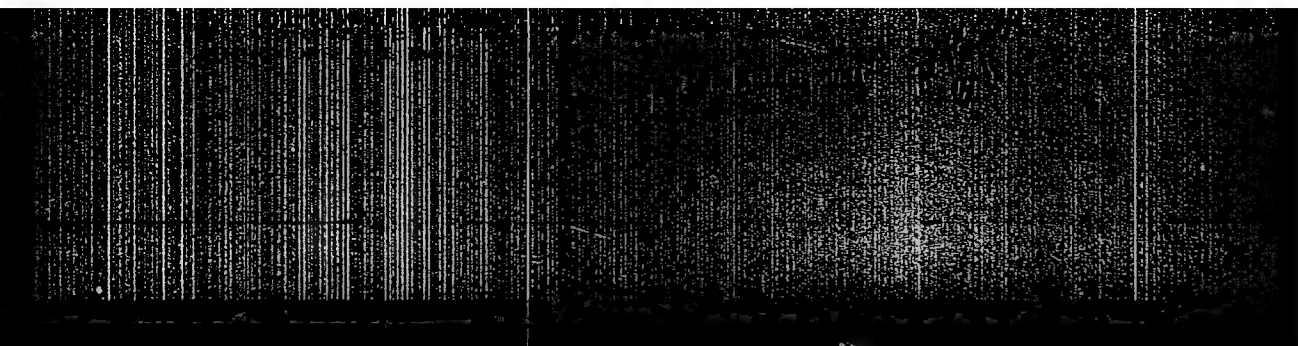
Epidemiologic peculiarities of diphtheria in Vitebsk District.
Zdrav. Belor. 5 no.2:43-44 P '59. (MIRA 12:7)

(MIRA 12:7)

1. Iz Vitebskoy rayonnoy sanepidstantsii.
(VITEBSK DISTRICT--DIPHTHERIA)

44

"Calculation of Potential and Velocity of Flow Around a Grid of Circular
Cylinders by a Plane Parallel Flow." Trudy Ts KTI 18 (1950)



USSR/Mathematics - Numerical Computations

Card 1/1

Author : Ginzburg, B. L.

Title : Formulas for numerical quadrature that are most convenient in application.

Periodical : Usp. mat. nauk, 9, No 2(60), 137-142, 1954

Abstract : Treats quadrature formulas, which were found as early as 1950 by the author, in the following form:

$$\int_{-1}^1 f(x) dx = 2 \sum A_i f(x_i) + R_i$$

where the factor 2 (the length of the interval makes the sum of coefficients A_i equal to unity. Latest reference: B. L. Ginzburg, "Application of general formulas of numerical quadrature to computation of hydrodynamic lattice, "Trudy LPI [Works of the Leningrad Polytechnic Institute], No 2, 1953.

Submitted : November 22, 1952

Card 1/1 Pub. 118-27/30

Author : Ginzburg, B. L. (reviewer)

Title : Review of the book 'Chislennyye metody matematicheskogo analiza'
[Numerical methods of mathematical analysis], Sh. Ye. Mikeladze,
State Technical Press, 1953, 528 pp, 4000 copies, 21 rubles

Periodical : Usp. mat. nauk, 9, No 3(61), 274-276, Jul-Sep 1954

Abstract : Five main divisions of the book: Finite differences and sums (I-IV, XIX); Interpolation and numerical differentiation (VI, X-XII); Numerical integration and summation (XIII-XVI); Approximation and method of least squares (V, VII-IX); Interpolation, numerical integration and summation of functions of many variables (XVII-XVIII). The reviewer recommends the book as a reference for those already familiar with applied mathematics, but not as a textbook for students. He states that in quantity this book exceeds all other similar books in Russian.

Institution :

Submitted :

GINZBURG, B.L., inzhener.

Numerical method for checking the evenness of runner blades
of hydraulic turbines. *Izvestiya vuzov. Mekhanika* no.2:19-24 7
'56. (Hydraulic turbines--Blades) (MLA 9:6)

16(1)

FRANK I. BOOK EXPLOITATION 80V/2508
 Matematicheskoye prosvetsheniye: matematika, 779.4 (Mathematical Education, Mathematics, Its Teaching, Application and History, Jr.) Moscow, Gosizdat, 1959. 15,000 copies printed.

Ed. I. M. Bronshteyn, Editorial Board of Series: I. M. Bronshteyn, A. I. Markushevich, I. M. Yaglom; Tech. Ed.: S. M. Akhmanov.

PURPOSE: This book is intended for persons without an extensive mathematical education who are interested in trends in contemporary mathematics. The book may be useful to high school mathematics teachers.

COVERAGE: The book consists of articles, reviews, and scientific and mathematical reports, some of which are translations from other languages. The state of modern mathematics is covered, including applications, history, teaching of mathematics in schools, and mathematical developments in the USSR and abroad. One section deals with scientific and pedagogical life in the USSR and another contains reviews of certain mathematical publications. Some mathematical background is necessary to understand the book; certain articles require a knowledge of higher mathematics.

Mathematical Education: (Cont.)

III. SCIENTIFIC-METHODOLOGICAL REPORTS

(Teaching Experience and Pedagogical Experimentation)

Akhmanov, I. O., and S. I. Zetel'. On an Approximation of Graphs of Functions by Curves of the Second Order [Conics] 179

Gradstein, I. S. (Deceased) On One Sufficient Test of Indefinite Integrals Turning to Zero 189

Segal, B. I. On the Local Limit Theorem in Probability Theory 193

Tetsh, K. (Hungary) Remarks on the Theory of Geometric Constructions 197

Brief Reports:

1. Baik, M. B. Computing a Sum by Weighting 197

2. Ginzburg, B. I. Simplification of Multiplication from Left to Right 201

3. Kuznetsov, A. V. A Study of the Roots of a Cubic Equation 207

Card 5/8

SECRET, S. (RUC-1)

2. The following information was obtained from the source:
(RUC-1)

GINZBURG, B.L.

"Dictionary of geographical names" by M.S. Bodnarskii. Reviewed
by B.L. Ginzburg. Geog. v shkole 22 no.2:90-91 Mr-Apr '59.
(MIRA 12:6)

(Geography--Dictionaries)
(Bodnarskii, M.S.)

GINZBURG, B.L.

Cities of the world with a population of more than one
million. Vop.geog. no. 45:246-252 '59. (MIRA 12:5)
(Cities and towns)

SHIROKHICH, F.T.; GINZBURG, B.L.-----

Strengthening the material base of the public health system in a task for all. Zdrav. Bel. 7 no. 4:18-20 Ap '61. (MIRA 14:4)

1. Predsedatel' ispolkoma Vitebskogo rayonnogo Soveta deputatov trudyashchikhsya (for Shirokikh). 2. Glavnyy vrach Vitebskogo rayona (for Ginzburg).

(VITEBSK DISTRICT—PUBLIC HEALTH, RURAL)

GINZBURG, B.M.

Immunogenic properties of serum from psoriasis patients.

Shor.nauch.rab.Bel.nauch.-issl.kozhno-ven.inst. 4:130-132 '54

(MIRA 11:7)

(PSORIASIS)

(IMMUNITY)

GINZBURG, R.M.

Use of human complement in the Wasserman test. Sbor.nauch.rab.
Bel.nauch.-issl.kozhno-von.inst. 4:221-226 '54 (MIRA 11:7)
(SYPHILIS--DIAGNOSIS--WASSERMAN REACTION)

FRENKEL', S.Ya.; KUKHAREVA, L.V.; GINZBURG, B.M.; GASPARYAN, K.A.; VOROB'YEV, V.I.

Effect of the load on the transition order-disorder in native
collagen fibers. *Biofizika* 10 no.5:735-742 '65.

(MIRA 18:10)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR, Leningrad i
Institut tsitologii AN SSSR, Leningrad.

FRENKEL', S.Ya.; KUKHAREVA, L.V.; GINZBURG, B.M.; KOSITSKY, V.I.

Free diagram of collagen and the interpretation of the heat of
order-disorder transition in water. Dokl. AN SSSR 1965. 1:149-
152 N '65. (MIRA 18:10)

1. Institut tsitologii AN SSSR i Institut khimicheskoy biologii
soyedineniy AN SSSR. Submitted April 21, 1965.

GINZBURG, B. M. and KONOVOIO, B. P.

"Forecast Methods of Ice Cover Breaking of Ob Yenisey".
Tr. Tsentr. in-ta, Prognozov, No 40, pp 56-61, 1955.

The causes of cracking of the ice cover of rivers flowing from the south to the north are analyzed. Observations of positive air temperatures are considered essential. (RZhFiz, No 11, 1955)

SO: Sum No 884, 9 Apr 1956

GINZBURG, B.M.

Long-range forecasting method for freezing and opening of rivers.
Meteor. i gidrel. no.2:10-14 F '56. (MLRA 9:6)
(Ice on rivers, Lakes, etc.)

Sponsoring Agency: Olegovye uprasleniya glavnokoroditsiya
 Staliby and Sivayev BSKA.

Reep. Ed.: V.A. Dzyryayev; Ed.: V.S. Potopov; Tech. Ed.: M.I.
 Zhaymala.

NOTE: This work is intended for meteorologists, hydrologists, and
 hydrophysicists, particularly those engaged in the study of snow
 and ice and evaporation processes.

CONTENTS: This book contains papers on hydrophysicities which were pre-
 sented and discussed at the Third All-Union Hydrological Conference
 in Leningrad, October 1957. The Conference published 10 volumes
 on various aspects of hydrology of which this is number 3. The
 editorial board in charge of the series includes: V.A. Dzyryayev
 (Chairman), O.A. Alekin, Ye.V. Bliznyak (deceased), O.S. Borkovskiy,
 M.A. Velikoboy, L.K. Davydov, A.P. Domantitskiy, G.P. Kalinin, S.B.
 Krut'nyy, B.I. Kudelin, L.P. Manduk, M.P. Menzel, O.P. Ostrikov,
 I.V. Popov, A.K. Prokuryakov, D.L. Solov'ev, O.I. Stetsko,
 A.I. Chebotarev, and others. This volume is divided into
 two sections. The first section contains reports from the subsection
 for the study of evaporation processes, and the second contains
 reports from the snow and ice subsection. References accompany
 each article.

Kolomoitov, A.G. [Professor, Doctor of Technical and Mathematical
 Sciences and A.A. Pivovarov, [Candidate of Technical and Mathemat-
 ical Sciences] Computing the Rate of Autumnal Cooling Along a
 River 270

Breslavskiy, A.P. [Candidate of Technical Sciences, OOI Leningrad]
 Computing the Ice Regimen of the Northern Kazakhstan Lakes 278

Petrov, M.P. [Docent, Candidate of Geographical Sciences, LOMI
 Leningrad] Long-range Changes in the Ice Break-up and Freeze-up
 Times of Rivers and Lakes and the Question of Extra Long-range
 Forecasting 287

Ginsburg, B.M. [Candidate of Technical Sciences, TsP Moscow]
 Determining the Method of Long-range Forecasting of Ice
 Break-up on Rivers 296

Makarevich, T.M. [Candidate of Geographical Sciences, OOI Leningrad]
 Unstable Ice Regimens on Rivers and Methods for Forecast-
 ing 302

Savchenko, Ye.I. [Candidate of Geographical Sciences, TsP
 Moscow] Long-range Forecasts of the Time of Ice Appearance on
 Siberian and Far Eastern Rivers 309

Pronin, A.G. [Candidate of Geographical Sciences, LOMI Leningrad]
 Atlantic Ocean Effect on the Type of Ice Cover and the Time of
 Ice Break-up for the Northwestern KSPR Rivers 313

Piotrovskiy, V.K. [Candidate of Technical Sciences], and M.P. Vise-
 gradskiy [Candidate of Geographical Sciences] Basic Means for De-
 veloping a Method of Long-range Forecast of Freeze-up and Ice
 Clearance Times in Reservoir Projects 320

Konovalev, I.M. [Professor, Doctor of Technical Sciences], V.V.
 Balutin [Docent, Candidate of Technical Sciences], and M.I. Ma-
 karevich [Engineer, LTV] Basic Problems in the Development
 of Ice Engineering 326

Rybnikov, M.Y. [Chief Engineer, Gusk] An Attempt to Use Solar
 Radiation for the Needs of Water Transportation 333

Gromah, D.G. [Engineer, Teploelektroproym, Moscow] Regulating
 the River Discharge by Ice Reservoirs 341

GINZHURG, B.N.

Brief survey of methods used in long-range forecasting of the
break-up of ice and freezing of rivers. Trudy TSIP no.90:3-
24 '59. (MIRA 12:8)
(Ice on rivers, lakes, etc.)

GINZBURG, B.M.; BALASHOVA, I.V.

Methods of calculating and forecasting the breakup of reservoirs.

Trudy TSIP no.100,3-64 '60.

(MIRA 14:5)

(Ice on rivers, lakes, etc.)

GINZBURG, B.M.

Method for long-range forecasting of the opening of rivers in the
central regions of the European part of the U.S.S.R. Trudy
TSIP no.114:36-44 '61. (MIRA 14:10)
(Ice on rivers, lakes, etc.)

GINZBURG, B.M.

Characteristics of tensile testing with breaking machines.
Plast.mussy no.3:49-53 '64. (MIRA 17:3)

ACCESSION NR: AP4045026

S/0191/64/000/000/0047/0049

AUTHOR: Ginzburg, B. M., Kopylova, Ye. L.

TITLE: Temperature dependence of the mechanical properties of extruded Penton films

SOURCE: Plasticheskiye massy*, no. 9, 1964, 47-49

TOPIC TAGS: bischloromethyloxacyclobutane, polymer strength, polymer elongation, polymer film, polymer extrusion, thermoplastic polymer, polymer viscosity, Penton, Pentoplast

ABSTRACT: A new thermoplastic material, Penton (polymer of 3,3-bis(chloromethyl)-oxacyclobutane), was investigated in the form of extruded films. First, however, the mol. weight was determined by the reduced viscosity of a 0.5% Penton solution in cyclohexanone at 293K. The viscosity of one batch was 2.53 dl/g (mol. wt. above 200,000) and that of the other was 0.93 dl/g (mol. wt. about 80,000). The films were extruded from granulated material at 483K, the temperature of granulation being 463K. The slight variation in viscosity of Penton during extrusion is tabulated. The temperature dependence of the yield point, tensile strength and relative elongation at break was then investigated over a temperature range of 193-438K. The thickness of the test strips was 0.05-0.10 mm and the experiments were carried out on a Schopper tester of the type FP-3.

Card 1/4

ACCESSION NR: AP4045026

Four temperature ranges can be distinguished on the basis of the curves shown in Fig. 1 of the Enclosure. At low temperatures, the mechanical properties change only slightly. In the second temperature range (275-300K), greater changes occur, especially for elongation. In the third temperature range (296 - 428K) the elongation increases considerably, almost linearly with temperature, but the yield point and strength decrease. Finally, over a temperature range of 423-438C, all the mechanical properties vary considerably. The temperature dependence of the mechanical properties of samples cut in the longitudinal and transverse directions was qualitatively the same. In the transverse direction, the brittleness temperature shifted toward higher temperatures ($299 \pm 2K$), the strength decreased slightly and the elongation at break increased slightly near 423K. The temperature dependence of these properties for Penton plastics with a reduced viscosity of 0.9 dl/g showed the same characteristics in the extrusion direction. Great variation in the data for Penton plastics could only be found near the temperatures of brittleness and melting. Below these temperatures, the mechanical properties of the film are comparable to those of cast Penton, and above them, the properties are improved. "The authors are indebted to A. V. Kupfer for the initiation of this investigation, the supply of the polymer samples and valuable comments. They also thank A. V. Fedeyeva for participating in the evaluation of this work and V. A. Denisova for helping to carry out the experiments. Orig. art. has: 4 figures and 1 table.

ACCESSION NR: AP4046026

ASSOCIATION: None

SUBMITTED: 00

ENCL: 01

SUB CODE: MT

NO REF SOV: 002

OTHER: 004

ACCESSION NR: AP4045026

ENCLOSURE: 01

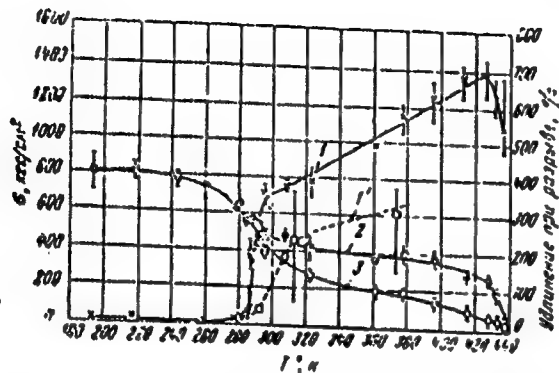


Fig. 1 - Temperature dependence of the mechanical properties of Pentoplast with $\eta = 2.5$ dl/g (in the extrusion direction): 1 - relative elongation at the break; 2 - tensile strength; 3 - yield point during extension; 1' - relative elongation at the break of Penton cast under pressure (according to Sandiford).

G'W' PORG, S.M., 1971, Yell.

Information concerning the above mentioned person is extracted
from the following sources: 1. 1971-1974

(MIRA 17:10)

1 23528-66

APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R000515120013-3
CIA-RDP86-00513R000515120013-3

ACC NR: AP6006982

SOURCE CODE: UR/0190/66/008/002/0278/0281

AUTHORS: Ginzburg, B. M.; Korshavin, L. M.; Frankel', S. Ya.; Layus, L. A.; Adrova, N. A. 42

ORG: Institute of High-Molecular Polymers, AN SSSR (Institut vysokomolekulyarnykh soedineniy AN SSSR) 39

TITLE: Crystallinity of poly-2,2'-octamethylene-5,5'-dibenzimidazole 3

SOURCE: Vysokomolekulyarnyye soedineniya, v. 8, no. 2, 1966, 278-281

TOPIC TAGS: x ray diffraction study, crystalline polymer/ URS-501 x-ray diffraction apparatus, GUR-3 goniometer 28

ABSTRACT: X-ray diffraction study of freshly prepared fibers and films of poly-2,2'-octamethylene-5,5'-dibenzimidazole (I) disclosed a crystalline structure of high order for that polymer, in spite of earlier observations to the contrary by the authors as well as by other workers (A. A. Isyneyev, V. V. Kurashev, V. V. Korshak, T. M. Frunze, and N. Sh. Aldarova. Izv. AN SSSR, Otd. khim. n., 1963, 2019; L. A. Layus, M. I. Bessonov, N. A. Adrova, and M. M. Koton. Plast. massy, 1965, No. 8, 34). The x-ray diffraction study was performed using instrument URS-501 with goniometer GUR-3 adjusted for measurements at small angles. It was established that a 3-hr thermal treatment at 160°C results in almost total amorphization of the structure, as can be seen in Fig. 1. However, it also leads to a two-fold rise of tenacity and a

Card 1/2

UDC: 678.01:53+678.6

ACC NR: AP6006982

I, pulses/sec



Fig. 1. Low angle x-ray diffraction on fibers (meridional direction):
1 - freshly formed;
2 - treated at 160C for 3 hours.

five-fold rise in the elasticity modulus. Relaxation mechanisms and structural processes related to the mobility of the heterocyclic sections of the chain of I, as well as the direct influence of formic acid, are discussed as probable causes of the crystallinity in freshly formed I. The authors express their gratitude to Ye. M. Pokrovskiy and K. K. Kalayn'sh for taking the IR spectra and to A. I. Slutsker for evaluation of the results. Orig. art. has: 8 figures and 1 formula.

SUB CODE: 07/ 8 SUBM DATE: 15Mar65/

ORIG REF: 007

OTH REF: 003

Card 2/2 V

L 22492-66 ENT(M)/ENF(1)/T RM
ACC NR: AP6009639

SOURCE CODE: UR/0181/66/008/003/0647/0650

AUTHOR: Ginzburg, B. M.; Sorokin, A. Ya.; Frenkel', S. Ya.

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TITLE: Self-orientation of structural elements during heat treatment of fibers of polyvinyl alcohol

SOURCE: Fizika tverdogo tela, v. 8, no. 3, 1966, 647-650

TOPIC TAGS: polyvinyl alcohol, polymer structure, x ray diffraction analysis, organic crystal, crystal orientation

ABSTRACT: This is a continuation of earlier work by one of the authors (Frenkel', DAN SSSR v. 162, 836, 1965) dealing with multistage self-ordering of polymers. In the present study, on the basis of the analogy between solid and liquid states, the authors investigate the increase in the orientation of crystallites, resulting from a short-duration heating of previously oriented freshly formed fibers of polyvinyl alcohol, which do not as yet have high crystallinity. Most earlier experimental studies of orientation at increased temperature were made in the presence of mechanical stretching. The authors studied a fiber of polyvinyl alcohol produced in acetone and subjected to some orientation during the shaping process itself. The crystallite orientation was studied by x-ray diffraction in apparatus in which

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the sample could be rotated about the axis of the primary beam. X-ray patterns showed that in the freshly formed fiber the crystallites are full of defects and are small in size. After placing the fiber for three minutes in a thermostat heated to 225°C (for a temperature close to the melting point), the fiber shrunk by approximately 30%, lost approximately 10% of weight, and the azimuthal half angle dropped from ~17° to 12.5° after one minute heating. After three minutes heating the results were ~30, ~34%, and 6.5° respectively. The orientation of the crystals is greatly increased, although many extraneous factors make an unambiguous interpretation of the degree of orientation difficult. This was accompanied by a strong shrinking of the fiber, thus evidencing a disorientation of its amorphous part. On the basis of the result the authors advanced the hypothesis that the orientation of the crystallites in the fibers has a thermodynamic character, i.e., the self-orientation of the supermolecular structure elements occurs in the solid phase. Orig. art. has: 3 figures and 1 formula.

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USSR/Medicine - Public Health,
Administration

Sep/Oct 48

Medicine - Public Health, Education

"The Experiment in Improving the Qualifications of
Public Health Directors in Rayons," B. S. Ginzburg,
Moscow, 3½ pp

"Sov Zdravookhran" No 5

Chair of Pub Health Orgn at Kazan State Inst for
Specialized Training of Doctors has considerable ex-
perience in training public health organizers.
Describes courses.

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Teaching public health organization in medical institutes and field
practice for students, Zdrav. Ros. Feder. 2 no.1:34-38 Ja '58.

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1. In kafedry organizatsii zdavookhraneniya i istorii meditsiny
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(dir. - dotsent Yu.D.Ryzhkov)

(PUBLIC HEALTH--STUDY AND TEACHING)

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Author: Ginzburg, I. I.

Title: The theory and determination of piston rings. (teoriia i raschet porshnevnykh kolts.) 122 p.

City: Moscow

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